

This figure displays a sequence alignment of various PKC isoforms, spanning from 6981400.r at the top to 40 at the bottom. The alignment is based on 120 amino acids, with positions numbered 210 through 40 along the top. A color-coded legend on the right indicates conservation levels: black (most conserved), green, blue, magenta, yellow, cyan, and red (least conserved). The alignment shows significant conservation of the kinase domain across all isoforms.

8394047.r LLTAQQMLQDSKTKIDILRMRRLQALQAGLESQAAPDEAHGDPDLGAVELRIEELRHFRVEIAVAGAEKVERLLSAAKAPDRAVSEAQEKLTESNQLGLLRESLERLSEL PADHEKGRLREELTAASSAAFSAILPGPPFATHYSTLSKPAALETLTEEVRLVGCGNLPEHIDP-WSPPP
 20878601.m HGTAAQQLLQDSKTKIEVIRMQIIQ-AVQTNELAFDNA-KPVISPLERMEELRHFRIEPAVAGKVNMLLGSCKVTDRLSEAQRNFNESSQKLDDLLKYSLECRDRLTENHKEKSSVIEELSVASPTLSPRQSMLTQNYSTLSKPAALETLTEEVRLMGCDIDLENPGSKAT
 30520013.m HGTAAQQLLQDSKTKIEVIRMQIIQ-AVQTNELAFDNA-KPVISPLERMEELRHFRIEPAVAGKVNMLLGSCKVTDRLSEAQRNFNESSQKLDDLLKYSLECRDRLTENHKEKSSVIEELSVASPTLSPRQSMLTQNYSTLSKPAALETLTEEVRLMGCDIDLENPGSKAT
 27697808.r HGTAAQQLLQDSKTKIEVIRMQIIQ-AVQTNELAFDNA-KPVISPLERMEELRHFRIEPAVAGKVNMLLGSCKVTDRLSEAQRNFNESSQKLDDLLKYSLECRDRLTENHKEKSSVIEELSVASPTLSPRQSMLTQNYSTLSKPAALETLTEEVRLMGCDIDLENPGSKAT
 PKN2 HGTAAQQLLQDSKTKIEVIRMQIIQ-AVQTNELAFDNA-KPVISPLERMEELRHFRIEPAVAGKVNMLLGSCKVTDRLSEAQRNFNESSQKLDDLLKYSLECRDRLTENHKEKSSVIEELSVASPTLSPRQSMLTQNYSTLSKPAALETLTEEVRLMGCDIDLENPGSKAT
 CG2049.AA HGTAAQQLLQDSKTKIEVIRMQIIQ-AVQTNELAFDNA-MIVPTFHAGGVLRQMAVQLOQQQRTMLHYLDLSPLARIN-QOLIVC-CASNVPPAARIS
 F46F6.2.AA HGDQSLLDDSRAKIAMLRMQIER-LSQEAPEAVEGEP-KTKVELAIDLIIRFHKEPKIDNGSRRNHRILRSKRKDSEIAVDEAMNSYVIASEADLKLALLYAASSLEHDHKYLLGEINSCLIKPPSSLSDRNPSSSEGGNGTSRRCFSMYSFLCHSGCPEVTINGAGILSEFEKIRK
 113r_E

410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 60
 6981400.r DPFVIFECGAGKGP-QTDDPRNHKFRLSYSSPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6755080.m EFPVIFECGAGKGP-QTDDPRNHKFRLSYSSPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCg EFPVIFECGAGKGP-QTDDPRNHKFRLSYSSPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCa EFPVIFECGAGKGP-DTDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6755078.m EFPVIFECGAGKGP-DTDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 28514642.m EFPVIFECGAGKGP-DTDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6679345.m EFPVIFECGAGKGP-ASDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCb EFPVIFECGAGKGP-ASDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6981398.r EFPVIFECGAGKGP-ASDDPRSHKFKIHITYGSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 Pkc53E.AA EFPVIFECGAGKGP-DSDSRTKTCNHEPEPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6679353.m EFPVIFECGAGKGP-RETMFHKEFRKIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCt EFPVIFECGAGKGP-RETMFHKEFRKIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 18959250.r DIIIFQKERFNIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6755082.m DIIIFQKERFNIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCd DIIIFQKERFNIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCdelta.A DIIIFQKERFNIDMHRFKVNYKSPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 13592027.r HLIIVTACCCNNIN-KVDAKIAEQRFGINI-HKFNVINYKVPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 31543511.m HLIIVTACCCNNIN-KVDAKIAEQRFGINI-HKFNVINYKVPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCh HLIIVTACCCNNIN-KVDKIAEQRFGINI-HKFNVINYKVPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 6755084.m HLIIVTACCCNNIN-ETPDEVGSQRFSVNMHKGIGIINYKVPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 PKCe HLIIVTACCCNNIN-EFPVQGSQRFSVNMHKGIGIINYKVPPTFCDCRGSSLLYGLVHQCMKSCCBMNVHRCRCSRVS-SLCVVDHTERRGRQLQLEIRAPTSDEIHITVGEARNLIMDNGLSDPYVKXKLIPDRBNLKTKQTKTIVKATIPVWNNTFVFNLPGDVERRLSVEVWDWDRTRSR
 Pkc98.E.AA HLIIVTACCCNNIN-KVEMVPAGQFNVLHWRFVWVSKCGRDPSKA-INTKOMAEILSLSGIPSQDRS-
 6679355.m HLIIVTACCCNNIN-RQPMCPGKEDKSIV-RQPMCPGKEDKSIV-
 11968080.r HLIIVTACCCNNIN-RQPMCPGKEDKSIV-RQPMCPGKEDKSIV-
 PKCz HLIIVTACCCNNIN-RQPMCPGKEDKSIV-RQPMCPGKEDKSIV-
 6679349.m HLIIVTACCCNNIN-RQPMCPGKEDKSIV-RQPMCPGKEDKSIV-
 27689561.r aPKC_AA QAPGLSICGEDRSIY-RRGARRWRKLYRVNHCFOAKPNRRAFCAYQDRIIQLROGFKCQCKLIVHKKCHKLVQKICP-DQP-EPLVKERAPESSDIPVPLPPLPYEAMSGGAEACETHD
 pkc_3.AA EFPVIFECGAGKGP-RRGARRWKLYKLYNHCFOAKPNRRAFCAYQDRIIQLROGFKCQCKLIVHKKCHKLVQKICP-QALO-GENPIIAPASGSILKCARHNTSSTTRSGGIDNCAF
 24418929.r VLAQSPSESWLRTSR-RQQRGGELASELVAVLKVNRVQGQIGWGLVREKWDQSDQFVSIISDARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LSLSLVPGQRLFAQVTFPCTVIERRLQRCIFSKRKGDFMRMASQMNQMAWGLVMSLPPCCSNTASPPKGR-
 PKN3 ALASSPSEGWLRTKA-KHQRGRGELASELVAVLKVNRVQGQIGWGLVREKWDQSDQFVSIISDARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LSSLSLVPGQGLFAQVTFCDVIERRLQRCIFSKRKGDFLRRSQMNQMAWGLVMSLPPCCSPTISPPKGCRTP
 28484889.r SLS-
 PKN1 SMGGPGTP-DSRPFFLSRPARGLY-RSGSLSGRSLLKAEEAENTSEVSTVILKDNITVVGQTSWPKCPGNNAWDSFVLEELERARELLEAVFWDQRLCALKEFLLEDPLDNERIE-VQLDMEPGCGCLVAEVTFPRNVIILERIIRLQROKKIFSKQGGQFQARHMNIDVATWVRLRLIPNAATGIGTFPS-
 8394047.r SVGASGTP-DSRPFFLSRPARGLY-NRSGSLSGRSLLKAEEAENTSEVSTVILKDNITVVGQTSWPKCPGNNAWDSFVLEELERARELLEAVFWDQRLCALKEFLLEDPLDNERIE-VQLDMEPGCGCLVAEVTFPRNVIILERIIRLQROKKIFSKQGGQFQARHMNIDVATWVRLRLIPNAATGIGTFPS-
 20878601.m SVALPGWSPSDNRSSFSMRTSK-SKSG--SSRNLLKTTDDLSN-DCAVAKLKDNTVVGQTSWPKCPGNNAWDSFVLEELERARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LCYLLEPQFLTQFVTFPCTVIERRLQRCIFSKRKGDFMRMASQMNQMAWGLVMSLPPCCSNTASPPKGR-
 30520013.m SVALPGWSPSDNRSSFSMRTSK-SKSG--SSRNLLKTTDDLSN-DCAVAKLKDNTVVGQTSWPKCPGNNAWDSFVLEELERARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LCYLLEPQFLTQFVTFPCTVIERRLQRCIFSKRKGDFMRMASQMNQMAWGLVMSLPPCCSNTASPPKGR-
 27697808.r SVALPGWSPSDNRSSFSMRTSK-SKSG--SSRNLLKTTDDLSN-DCAVAKLKDNTVVGQTSWPKCPGNNAWDSFVLEELERARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LCYLLEPQFLTQFVTFPCTVIERRLQRCIFSKRKGDFMRMASQMNQMAWGLVMSLPPCCSNTASPPKGR-
 PKN2 SVALPGWSPSDNRSSFSMRTSK-SKSG--SSRNLLKTTDDLSN-DCAVAKLKDNTVVGQTSWPKCPGNNAWDSFVLEELERARELIEVWHDWRLQVCAVFLVQKLEPDTLNAQHQ-LCYLLEPQFLTQFVTFPCTVIERRLQRCIFSKRKGDFMRMASQMNQMAWGLVMSLPPCCSNTASPPKGR-
 CG2049.AA LVHTLEPINASRTTCLIEVAEPDSDPQEIKPVAEAKSVAECSVESIIPETVEKLEIADVOQVQIPOLCRLYVG-
 F46F6.2.AA DPPGVPGFISVYGMDS-
 113r_E CKKKKSARGENSSEEVPCVURIRNFIGATEELRKIVDRNWDCKFVDPDRBRELQIELFYI-DDSMSMCFAAKLNSNLIETSSXVGIIIVEVEPOGNIIVFQVKMNVVSRKCKLERORRLFRVKESND-GARQKLGVFAFSLIKNQRNESEKFAAFTGTPMPS
 GNAAAKKGX-EQESVKEFLAKEDFLKWKWTPSNTAO

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 80
 6981400.r NDFMGAMSGFVSELLKAPVGDWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 6755080.m NDFMGAMSGFVSELLKAPVGDWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 PKCg NDFMGAMSGFVSELLKAPVGDWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 6755078.m NDFMGAMSGFVSELLKAPMGSWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 28514642.m NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 6679345.m NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 PKCb NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 6981398.r NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 Pkc53E.AA NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 6679353.m NDFMGMSLGSFVSELMLKMPASWYKLLN-QEEGEYYNVPVADNCSSLQKFEACNYPLEYERVRMGP-SSSPSPSPSPSTDSKRCFFGASPGRHLISDPSFLMVLGKGSQPKVMLAERRSDELYAIKILKIKDVIDVQDDDVCTTVEKRVLALGGRGFGPRPHFLTLHST
 PKCt -NEARLPCPLPTPG-KRBPGQGISWESPLDDE-
 18959250.r -KKTAVSGNDIID-NNGTYGKIGWEGSN-
 6755082.m -KKEPVSGSDILD-NNGTYGKIGWEGST-
 PKCd KKTGVAGEDMD-NSGIYGKIGWEGS-
 PKCdelta.A -KSGRETFATPTV-
 13592027.r RSTLRRQGKEG-
 31543511.m RSTLRRQGKEG-
 PKCh RSTLRRQGKEG-
 6755084.m NNIRKALSFDNRGEEHRAASSATGQLA-
 PKCs NNIRKALSFDNRGEEHRAASSPDQLM-
 Pkc98.E.AA TSTTTMTSG-YNSSCSMSLAVT-
 6679355.m -DDSEDLKPVIDG-GSGGVCATGETRPG-
 11968080.r -DDSEDLKPVIDG-VDGIKISQGLG-
 PKCz -DDSEDLKPVIDG-MDGIKISQGLG-

6679349.m -DQVGEKEEAMNT -RESCKASSSLG
 PKCι -DQVGEKEEAMNT -RESCKASSSLG
 27689561.r -HAHIEVAPPPE -PLEPGTQRQVS
 aPKC-AA -HEHEIESTPGS -HADRAMNGNGSSKW
 pkc-3.AA -
 24418929.m AVCGTPSAASPNSFLPMKTDLSKEDP
 PKN3 TLREASPDATPSNLFKKTLPGEEMTP
 28484889.m XNPLPMKTLSKEDTKP
 PKN1 GSEART TGDISVEKLNLGTD
 8394047.r GSEIRS TGDISMEKLNLGADS
 20878601.m VVDARIPDLAPPASDSTVTKLDFDLEPEPPAPPRA
 30520013.m VVDARIPDLAPPASDSTVTKLDFDLEPEPPAPPRA
 27697808.r VVDARTPELAPPASDSTVTKLDFDLEPEPPAPPRA
 PKN2 CG2049.AA F46F6.2.AA 113r_E

1000 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990
 6981400.r FOTDRLYFVMEYVNGGLDMYHIQOVGKRE
 6755080.m FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 PKCg FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 PKCa FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 6755078.m FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 28514642.m FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 6679345.m FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 PKCb FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 6981398.r FOTDRLYFVMEYVNGGLDMYHIQOGLKRE
 Pkc53.E.AA FOTDRLYFVMEYVNGGLDMF
 6679353.m FOTENLFLFVMEYLNNGGLDMYHIQOSCKRE
 PKCt FOTENLFLFVMEYLNNGGLDMYHIQOSCKRE
 18959250.r FOTDHFVMEFLNGGLDMFIQDKRE
 6755082.m FOTDHFVMEFLNGGLDMFIQDKRE
 PKCd FOTDHFVMEFLNGGLDMFIQDKRE
 PKCdelta.A FOTDHFVMEFLNGGLDMFIQESGRSEGRPF
 13592027.r FOTDHFVMEFLNGGLDMFIQDKRE
 31543511.m FOTDHFVMEFLNGGLDMFIQDKRE
 PKCh FOTDHFVMEFLNGGLDMFIQDKRE
 6755084.m FOTDHFVMEFLNGGLDMFIQDKRE
 PKCe FOTDHFVMEYVNGGLDMFIQDKRE
 Pkc98E.AA FOTDHFVMEYVNGGLDMFIQDKRE
 6679355.m FOTTSRLFVIEYVNGGLDMHMORKPE
 11968080.r FOTTSRLFVIEYVNGGLDMHMORKPE
 PKCz FOTTSRLFVIEYVNGGLDMHMORKPE
 6679349.m FOTTSRLFVIEYVNGGLDMHMORKPE
 PKCι FOTTSRLFVIEYVNGGLDMHMORKPE
 27689561.r FOTTSRLFVIEYVNGGLDMHMORKPE
 aPKC-AA FOTTSRLFVIEYVNGGLDMHMORKPE
 pkc-3.AA FOTTSRLFVIEYVNGGLDMHMORKPE
 24418929.m FOTTSRLFVIEYVNGGLDMHMORKPE
 PKN3 FOTTSRLFVIEYVNGGLDMHMORKPE
 28484889.m FOTTSRLFVIEYVNGGLDMHMORKPE
 PKN1 FOTTSRLFVIEYVNGGLDMHMORKPE
 8394047.r FOTTSRLFVIEYVNGGLDMHMORKPE
 20878601.m FOTTSRLFVIEYVNGGLDMHMORKPE
 27697808.r FOTTSRLFVIEYVNGGLDMHMORKPE
 PKN2 FOTTSRLFVIEYVNGGLDMHMORKPE
 CG2049.AA FOTTSRLFVIEYVNGGLDMHMORKPE
 F46F6.2.AA FOTTSRLFVIEYVNGGLDMHMORKPE
 113r_E FKDNSNLMMVMEYVAGGEMSHURRGREXEP

1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160
 6981400.r GFFRWIDMPLERLERLEAPFPRPCC
 6755080.m GFFRWIDMPLERLERLEAPFPRPCC
 PKCg GFFRWIDMPLERLERLEAPFPRPCC
 PKCa AFFR-RIDMPLERLERLEAPFPRPCC
 6755078.m AFFR-RIDMPLERLERLEAPFPRPCC
 28514642.m AFFR-RIDMPLERLERLEAPFPRPCC
 6679345.m AFFR-YIDMPLERLERLEAPFPRPCC
 PKCb AFFR-YIDMPLERLERLEAPFPRPCC
 6981398.r AFFR-YIDMPLERLERLEAPFPRPCC
 Pkc53.E.AA FFSR-RIDMPLERLERLEAPFPRK
 6679353.m PLFR-BINMPLERLERLEAPFPRK
 PKCt PLFR-BINMPLERLERLEAPFPRK
 18959250.r FFFK-TINMNLLEKRKVPEPFK
 6755082.m FFFK-TINMNLLEKRKVPEPFK
 PKCd FFFK-TINMNLLEKRKVPEPFK

PKCdelta_A	FFFR-PIDMGLLEKKRQIEPFMPOVKHPIDTOYFTRVFTTRERVRVLTPI-DKEIILASMDOKCFEGFTVYNPHILD
13592027_r	FFFK-BEDWQQLNEQRQLEPFFRIRKSREDDVNFDDEFIKESPVLTPI-DEGHFLPMINODEFRNFSVVSPELQP
31543511_m	FFFK-BEDWQQLNEQRQLEPFFRIRKSREDDVNFDDEFIKESPVLTPI-DEGHFLPMINODEFRNFSVVSPELQP
PKCh	FFFK-BEDWQQLNEQRQLEPFFRIRKSREDDVNFDDEFIKESPVLTPI-DEGHFLPMINODEFRNFSVVSPELQP
6755084_m	FFFK-BEDWQQLNEQRQLEPFFRIRKSREDDVNFDDEFIKESPVLTPI-DEGHFLPMINODEFRNFSVVSPELQP
PKCe	FFFK-BEDWVLLLEQKXKXPFFRIRKIKRDVNNFDDDFTRKEPPVLTPI-DEAIKQKQDSEPKKCFSYFGEDLMG
Pkc98E_AA	FFFK-KLDVKELEKRNIKPFPRKMKNPXPDANNFDAEFTKEPVLTPI-CNEVVRCINODEFAFCSFVNPKFGPERKVY
6679355_m	AFFR-SIDMDULEKKDKLPPFOQIITDDYGLDNFDQOFTSEEVOLTPD-DEDVTKRIDIPOSEFECFELYINPLLSAEESV
11968080_r	AFFR-SIDMDULEKKDKLPPFOQIITDDYGLDNFDQOFTSEEVOLTPD-DEDVTKRIDIPOSEFECFELYINPLLSAEESV
PKCz	AFFR-SIDMDULEKKDKLPPFOQIITDDYGLDNFDQOFTSEEVOLTPD-DEDVTKRIDIPOSEFECFELYINPLLSAEESV
6679349_m	AFFR-NVDVDMMECKQWVPPFKRNISGERGLDNFDQOFTSEEVOLTPD-DDDIYRKIDPOSEFECFELYINPLLSAEESV
PKCi	FFFR-NVDVDMMECKQWVPPFKRNISGERGLDNFDQOFTSEEVOLTPD-DDDIYRKIDPOSEFECFELYINPLLSAEESV
27689561_r	FFFR-NVDVDMMECKQWVPPFKRNISGERGLDNFDQOFTSEEVOLTPD-DDDIYRKIDPOSEFECFELYINPLLSAEESV
aPKC_AA	FFFK-NIDMELLERKQVTPFFRRLSDSDLNLNFPEETFGEAVOLTPD-DBHVNDNIDOSEFECFELYINPLLSAEESV
pkc-3_AA	QFFFGEDIDMCALECKKAVAPEYHPAVESDIDLHEDQOFTDELPLSPD-N-DEVIARIDPOSEFECFELYINPLLSAEESV
24418929_m	FFRTT-NWQALLARIHQPEFVTILCPADLRYFCEEFVIGLEPAAPTPAPHSILMARQOAFRDFDFTSERFIEP
PKN3	FFRTT-NWQALLARIHQPEFVTILCPADLRYFCEEFVIGLEPAAPTPAPHSILMARQOAFRDFDFTSERFIEP
28484889_m	FFRTT-NWQALLARIHQPEFVTILCPADLRYFCEEFVIGLEPAAPTPAPHSILMARQOAFRDFDFTSERFIEP
PKN1	FFRLT-QWELLARALTFPEFVTILCPADLRYFCEEFVIGLEPAAPTPAPHSILMARQOAFRDFDFTSERFIEP
8394047_r	FFRLT-QWELLARALTFPEFVTILCPADLRYFCEEFVIGLEPAAPTPAPHSILMARQOAFRDFDFTSERFIEP
20878601_m	FFRLT-DWSALMDKKVKPFPEFVTIRGRDDVSNFDEEFITSEAPILITP-REIRILEEBOEMFHDFDVADWC
30520013_m	FFRLT-DWSALMDKKVKPFPEFVTIRGRDDVSNFDEEFITSEAPILITP-REIRILEEBOEMFHDFDVADWC
27697808_r	FFRLT-DWSALMDKKVKPFPEFVTIRGRDDVSNFDEEFITSEAPILITP-REIRILEEBOEMFHDFDVADWC
PKN2	FFRLI-DWSALMDKKVKPFPEFVTIRGRDDVSNFDEEFITSEAPILITP-REIRILEEBOEMFHDFDVADWC
CG2049_AA	FFRSI-VWDILLRKVKPFPEFVTINHLDVSNFDEEFITSEPAQITP-KEFRHTEPEOLLFODFS-TAEWC
F46F6_2_AA	FFRHISWENDQLINRERTRPFQDPIRNPDDVSNFDEEFITSEPAQITP-KEFRHTEPEOLLFODFS-TAEWC
113r_E	WFATT-DWIAINQRKVEAPFIPKFKGPQDTSNFDDYEEEEEIRVX-UNEKCGKFTBF